

# Initial Project Suggestions

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# Topic Categories

- Patient Distractions
- Way Finding
- Infection Control
- Social Care

# Patient Distractions

# Patient Entertainment

- Experimentation with HMDs (Head Mounted Display) has shown beneficial results (Frere 2001)
- Decreases duration of procedures
- Reduces patient anxiety
- Improves patient satisfaction



# Bedside Computers



Arkansas Children's Hospital

# Arkansas Children's Hospital

- 15" Touch screen
- Xbox 360
- Cable TV
- Internet
- Providers can access EMR system
- Aids in explaining results for patients

# What's *The Question?*

- How should these ideas fit into a children's hospital?
- Does a child need internet access?
- How do hospitals incorporate the rapidly changing gaming market?
- What types of games are they allowed to play? Shooting/Violent games?

# Patient Distractions

- <http://onl0.net/Blogs/bcrounse/a-pediatric-hospital-bedside-patient-entertainment--education-system-microsoft-media-center--xbox-36/>



# Way Finding

# Way Finding

- Getting to the hospital
  - MARTA maps and shuttle
  - Children footprints on sidewalk
- Wall and ceiling colors and themes
- LED/LCD based signs for easy updating

# Way Finding

- Interactive 3D model
  - Touch screen lookup by unit/room/physician
  - Scaled hospital lights up path
  - Option to print walking directions



# Way Finding

- Ceiling mural
  - Hand sketched
  - Digitally enlarged and divided
  - Mounted on acoustic dampening ceiling tiles
- Relatively inexpensive



# Way Finding



# Infection Control

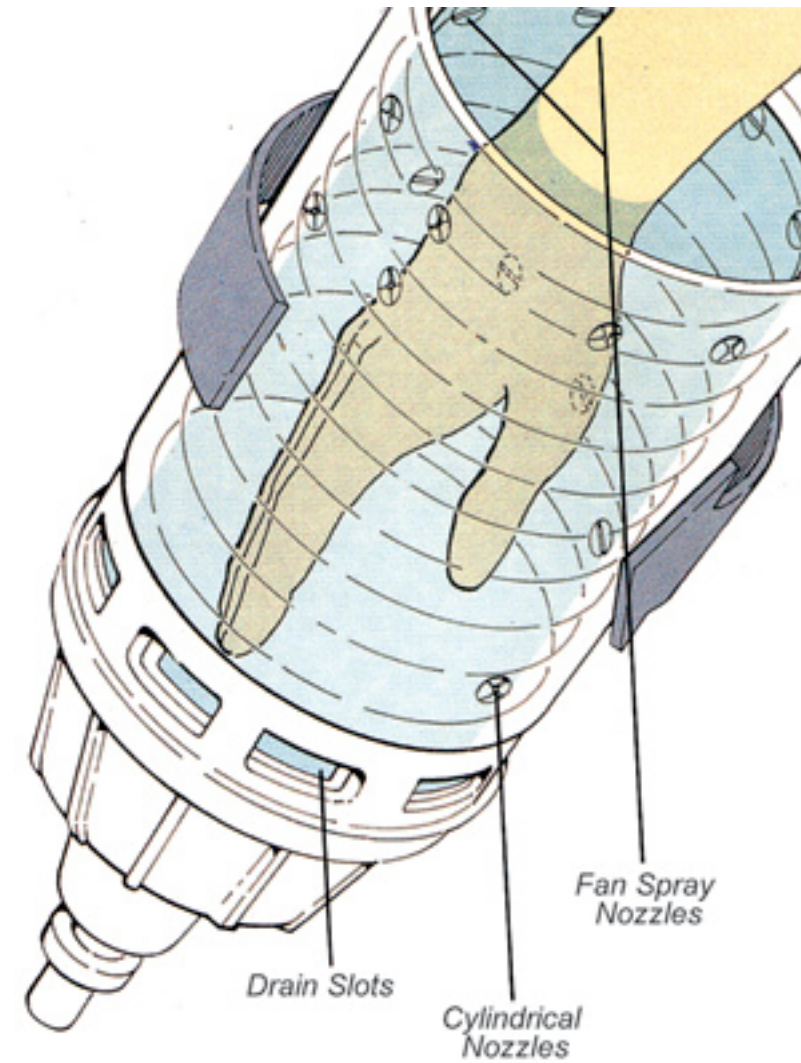


# Infection Control

- RFID hand washing alert system
  - Detects doctor's entrance into room
  - Alerts doctor if Patient Zone entered without hand washing
  - Records when doctor washes hands



# Infection Control



# Infection Control



# Social Care & Transparency

# Care Networks

- Some sites to use as models:
  - [www.carepages.com](http://www.carepages.com)
  - [www.choc.org/carepages/index.cfm](http://www.choc.org/carepages/index.cfm)
  - [www.getwellnetwork.com/pdfs/Carepages%20I-sheet.pdf](http://www.getwellnetwork.com/pdfs/Carepages%20I-sheet.pdf)

# Digital Art Interactions

- Digitally-interfaced headboard covers that double as both a computer for the nurse and a creative playground for the patient
- Digitally finger paint a picture or an image on the screen
- Download and share paintings with
  - Other children at the hospital
  - Friends and family members

# Digital Art Interactions

- Shared patient paintings:
  - One patient paints for some time
  - Painting automatically sent to another patient
  - Second patient adds to painting
  - Cycle repeats

# Transparency

- Interactive screens to explain procedures in certain rooms (ex: MRI, blood transfusion rooms, etc)
- Fun, short blurbs children can touch guides them through procedure
- Lots of pictures, diagrams, and short phrases
- Located just inside each room for patients to use while waiting on doctors

# Questions